

Scinor® Industrial Membrane Elements SRT HBG/T Series

Brief Introduction

The **SRT HBG/T** (Industrial water high rejection) series of aromatic polyamide compound membrane element developed by Scinor Membrane Technology Co., Ltd. has the properties of low-pressure operation, high permeate flow and super excellent desalination, the rejection rate could reach 97.5% and are applicable to desalination of brackish water. Besides, it is particularly applicable to fabrication of high-purity water for electronic industry and electric power industry owing to its excellent performance in removing soluble salts, TOC, SiO₂, etc.

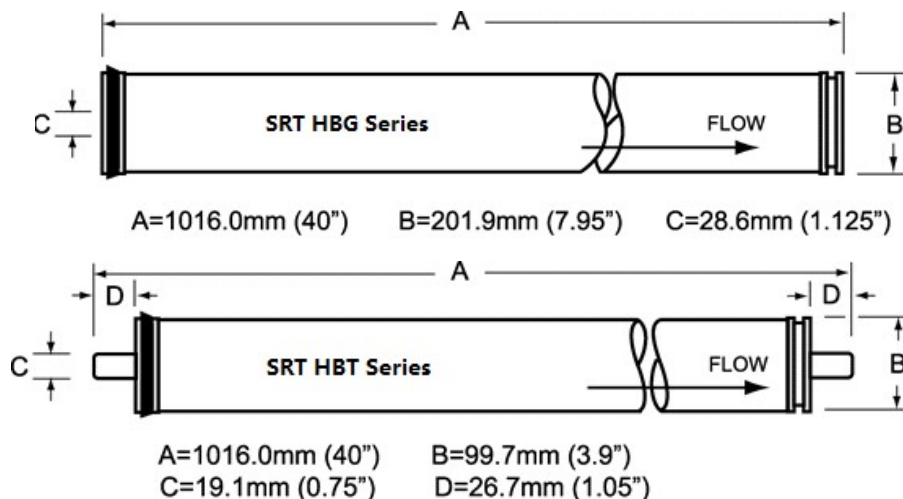
Being suitable for desalting the water sources with lower 10000 ppm TDS such as surface water, underground water, tap water and municipal water, etc., **SRT HBG/T** series is mainly applicable to treatment of various industrial water such as industrial-purpose pure water, boiler water replenishment in power plant, and can be also applied to such brackish water applications as treatment of high-concentrated saline wastewater and production of beverage-purpose water.

Specifications and Major Properties

Model	Average Permeated Flow GPD (m ³ /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
SRT HBG-C31/365	10500(39.7)	99.75	99.4
SRT HBG-C31/80	2500(9.5)	99.7	99.4

Testing Conditions:
 Testing Pressure.....225 psi (1.55Mpa)
 Temperature of Testing Solution25 °C
 Concentration of Testing Solution (NaCl)..... 2000ppm
 pH Value of Testing Solution7.5
 Recovery Rate of Single Membrane Element....15%

Dimensions of Membrane Element



All dimensions are shown in: millimeter (inch)

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Extreme Operation Conditions

Max. Working Pressure	600 psi (4.14 Mpa)
Max. Feed water Flow	75 gpm (17 m ³ /h) (EBG) 16 gpm (3.6 m ³ /h) (EBT)
Max. Feed water Temperature	45°C
Max. Feed water SDI	5
Residual chlorine Concentration of Feed water	< 0.1ppm
pH Range of Feed water during Continuous Operation	3 ~ 10
pH Range of Feed water during Chemical Cleaning	2 ~ 12
Max. Pressure Drop of Single Membrane Element	15 psi (0.1 Mpa)

Important Information

- Any specific application must be limited within the extreme operating conditions. We strongly recommend you to refer to the latest edition of technology manual and design guide prepared by Scinor Membrane Technology Co., Ltd., or consult experts proficient in membrane technology. In case the customer fails to follow the operating conditions as specified in this manual, Scinor Membrane Technology Co., Ltd. will assume no liability for all results.
- The permeate flow listed in the table is the average value. The permeate flow of single membrane element is within a tolerance not exceeding ±20% of the nominal value.
- All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with the solution of 1.0% sodium hydrogen sulfite (an antifreeze solution of 10% propanediol required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes. In order to prevent the breeding of microbes during short-time storage, transportation and system standby, we recommend you to soak the membrane elements with protective solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (foodstuff-purpose).
- Discard the RO-filtered water produced during the first one hour after system start-up.
- During storage time and run time, it is strictly prohibited to dose any chemical medicament that may be harmful to membrane elements. In case of any violation in using this kind of chemical medicament, Scinor Membrane Technology Co., Ltd. assumes no liability for any outcome incurred here from.

Beijing Scinor Membrane Technology Co., Ltd.

F/8 Xueyuan International Tower
1 Zhichun Road, Haidian District
Beijing, 100083
P.R China

Tel: +86 (10) 6975 6503
Fax: +86 (10) 6975 2006
Email: Info@scinormem.com
Website: www.scinormem.com

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